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Appendix A

Comparison of the amino acid sequences of the Cysteine proteases from soybean clone sn3c.pk003.d10;fis (SEQ ID NO:24) and *Phaseolus vulgaris* set forth NCBI General Identifier No. 2511691. Amino acids conserved among the two sequences are indicated with a single asterix above the conserved residues. Dashes are used by the program to maximize alignment of the sequences. Residues conserved in all known cysteine proteases are underlined. Amino acids in the active site and cysteines in disulfide bridges are indicated by a dot and by a triangle below the conserved residues, respectively (Karrer et al.(1993) P.N.A.S.90, 3036-3067).

•	** * **** * * * ****** * ******* **
SEQ ID NO: 24	MANLSLLFFGLLLFSA-AVATVERIDDEDNILIROVVPDAE-DRHILMAEHHFSAFKTKF
Gi:25 1 1691	MARYTLCALLLFAAVAAAAGGASTDADDILIRQVVPBGEVEDHLLNAEHHFSTFKSKF
SEQ ID NO: 24	***** ******
Gi: 2511691	AKTYATQEKHDHRFRIFKWILLRAKSHQKLDPSAVHGVTRFSDLTPSEFRGQFLGLKPLR
01:2311031	GKTYATKEEHDHRFGVFKSNMRRARLHAQLDPSAVHGVTKFSDLTPAEFHRKFLGLKPLR
	** ******* ** ****** ** *****
SEQ ID NO: 24	LPSDAQKAPILPTSDLPTDFDWRDHGAVTGVKNDGSCGWCWSFSAVGALEGAWPLSTGGL
Gi:2511691	LPAHAQRAPILPTMMLPKDFDWRDKGAVTNVKDQGSCGSCWSFSTTGALPGAHFLATGEL
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SEQ ID NO: 24	中央大大大工工程的企业企工 大水水水土 文 工工工工程的大水大大 工工作中型 女士 由中 有大大工工业企工 &
G1:2511691	VSLSEQQLVDCDHECDPEERGACDSGCNGGLMTTAFEYTLKAGGLMREEDYPYTGRDRGP
01.2511031	VSLSEQQLVDCDHVCDPEEYGSCDSGCMGGLMMMAFEYLIGSGGVQREKDYPYTGRD-GT
	********* * ** ***
SEQ ID NO: 24	CKFDKSKIAASVANPSVVSLDEÐQIAANLVKNGDLAVGINAVFMQTYIGGVSCPYICGKH
Gi:2511691	CKPDKSKIAASVSNYSVISLDEEQIAANIVKNGPLAVAINAVYMQTYVGGVSCPYICGKR
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	• A
SEQ ID NO: 24	LDHGVLLVGYGSGAYAPIRPKEKPYWIIKNSWGESWGEEGYYKICRGRNVCGVDSMVSTV
Gi:2511691	LDRGVLLVGYGDGAYAPIRFKRKPYWIIKNSWGENWGGNGYYKICRGRNVCGVDSMVSTV
	• •
	*** *
SEQ ID NO: 24 Gi:2511691	AATHVSNH